Adarsh Alex

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OBJECTIVE

Seeking to leverage my experience and skills in Software Engineering to develop big data analytics and scalable applications.

EDUCATION

Wright State University, Dayton, Ohio, USA
Master of Science (M.S.) in Computer Science — Aug 2013 – Jul 2016
- Research areas: Exploiting knowledge encoded in Knowledge Graphs to enhance Text Mining, Natural Language Processing and Applied Machine Learning
- Thesis: Detecting and Classifying Implicit Entity Mentions in Tweets
- Advisor: Dr. Amit P. Sheth

Mumbai University, Mumbai, Maharashtra, India
Bachelor of Engineering (B.E.) in Computer Engineering — Aug 2009 – May 2013

SKILLS

- **Programming Languages**: Java, Python, C++, C, Scala, Ruby
- **Databases**: SQL, PL/SQL(Oracle), MySQL, MongoDb, Neo4j.
- **Web Services**: JAX-WS Web Service, Restful Web Service (REST)
- **Big Data Technologies**: Apache Hadoop(Mapreduce), Apache Storm.
- **Web Technologies**: HTML, CSS, Javascript.
- **Tools and Software**: NLTK, Stanford CoreNLP, Gensim, OpenNLP, Weka, scikit-learn, word2vec, git, svn.
- **Operating Systems**: Linux, Windows, Mac.

EXPERIENCE

Kno.e.sis Center, Wright State University
Graduate Research Assistant, Computer Science Department — Aug 2014 – Jul 2016
- Identifying and linking Implicit Entity Mentions in Tweets and Electronic Medical Records (EMR) using background knowledge.
- Leveraged machine learning techniques for filtering out noisy tweets in real time.

ezDI, LLC, Ahmedabad, Gujarat, India
Research Intern — May 2014 – Aug 2014
- Explored and developed approaches for automatic knowledge acquisition from Electronic Medical Records to enhance knowledge graphs using semantic techniques and domain knowledge.

PROJECTS

Detecting and Classifying Implicit Entities in Tweets — Mar 2015 – Jul 2016
- Developed a solution that leverages background knowledge from crowd-sourced knowledge bases like Wikipedia and DBpedia to identify implicit entity mentions in unstructured text (Tweets) in real time.

Forecasting Property Prices — May 2015 – Jul 2015
- Developed a multi-variate linear regression model using gradient descent algorithm to predict housing prices.

Recognizing Handwritten Digits — May 2015 – Jul 2015
- Developed a three layer feed-forward neural network to recognize handwritten digits.

Real Time Tweet Filtering — Aug 2014 – Dec 2014
- Implemented an analysis pipeline engine for streaming data (Tweets) using Twitter Streaming API, Apache Storm and Mongo DB.
- Also developed a framework for real time noise filtering and feedback learning using Apache Storm and Weka.

Knowledge Acquisition from EMR Documents — May 2014 – Aug 2014
- Developed an approach for automatic knowledge acquisition from Electronic Medical Records using Java, Virtuoso and Neo4j to enhance knowledge graph by leveraging domain knowledge and applying semantic techniques.

PUBLICATIONS

- Adarsh Alex, Sujan Perera, Amit Sheth "**Detecting and Classifying Implicit Entity Mentions in Tweets**" *Technical Report* [Work in Progress].
- Sujan Perera, Pablo N. Mendes, Amit P. Sheth, Krishnaprasad Thirunarayan, Adarsh Alex, Christopher Heid, Greg Mott "**Implicit Entity Recognition in Clinical Documents**," *In proceedings of The Fourth Joint Conference on Lexical and Computational Semantics (*SEM)*, Jun 2015.
- Sujan Perera, Pablo N. Mendes, Adarsh Alex, Amit P. Sheth, Krishnaprasad Thirunarayan "**Implicit Entity Linking in Tweets**," *In Extended Semantic Web Conference (ESWC)*, May 2016.